

# GENERAL SPECIFICATIONS

Item	Europe				Australia			
	Hardtop	Wagon	Pick-up	Hardtop	Van	Wagon	Pick-up	
Suspension type	Parallel semi-elliptic leaf spring							
Leaf spring								
Part number	54010-C8200	54010-C8202	54010-C8500	54010-C8502	54010-C8500	54010-C8502	54010-C8502	
Length x Width x Thickness mm (in) — Number of leaves	1,100 x 60 x 9 (43.31 x 2.36 x 0.35) — 3		1,100 x 60 x 8 (43.31 x 2.36 x 0.31) — 3	1,100 x 60 x 8 (43.31 x 2.36 x 0.31) — 3	1,100 x 60 x 8 (43.31 x 2.36 x 0.31) — 3	1,100 x 60 x 8 (43.31 x 2.36 x 0.31) — 3	1,100 x 60 x 8 (43.31 x 2.36 x 0.31) — 3	
Camber Free	133.7 (5.26)	143.7 (5.66)	133.7 (5.26)	137.9 (5.43)	123.0 (4.84)	137.9 (5.43)	123.0 (4.84)	
Spring constant N/mm (kg/mm, lb/in)	45.8 (4.67, 261.5)		55.0 (5.61, 314.2)	63.8 (6.51, 364.6)	55.0 (5.61, 314.2)	63.8 (6.51, 364.6)	55.0 (5.61, 314.2)	
Shock absorber	Double acting hydraulic type							
Type	446 (17.56)							
Maximum length	mm (in)							
Damping force (at 0.3 m (1.0 ft)/sec)	N (kg, lb)							
Expansion	1,667 (170, 375)							
Compression	981 (100, 221)							
Stabilizer bar diameter	20 (0.79)		23 (0.91)		20 (0.79)		23 (0.91)	
U-bolt								
Type A R.H. Length (L) x Width (W)	73 x 73.5 (2.87 x 2.894)		91 x 73.5 (3.58 x 2.894)		73 x 73.5 (2.87 x 2.894)		91 x 73.5 (3.58 x 2.894)	
Type B L.H. Length (L) x Width (W)	120 x 89 (4.72 x 3.50)		143 x 89 (5.63 x 3.50)		120 x 89 (4.72 x 3.50)		143 x 89 (5.63 x 3.50)	

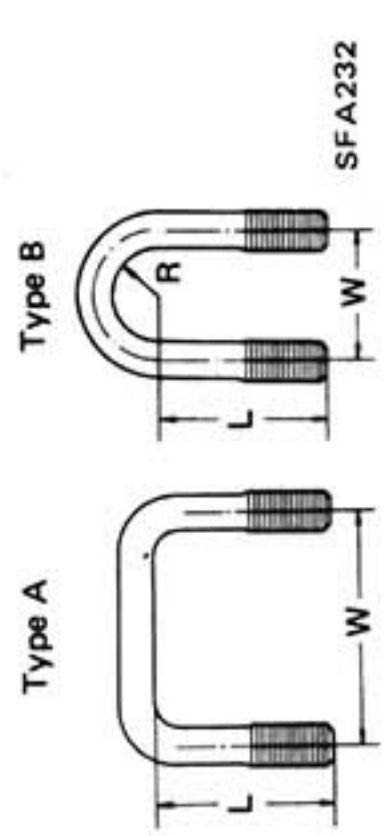
# FRONT AXLE & FRONT SUSPENSION

# SECTION FA

## SERVICE DATA AND SPECIFICATIONS

SERVICE DATA AND SPECIFICATIONS

Destination	Middle East										Except Europe Australia and Middle East							
	Hardtop		Van	Wagon		Pick-up Heavy duty	Hardtop		Van	Wagon		Pick-up		Pick-up Heavy duty				
	P	L28	P	P	L28	P	P	SD	P, SD L28	P	SD	L28	L.H. P, SD, L28	R.H. P, SD, L28				
Item	Parallel semi-elliptic leaf spring												Parallel semi-elliptic leaf spring					
Suspension type	Parallel semi-elliptic leaf spring												Parallel semi-elliptic leaf spring					
Leaf spring	Parallel semi-elliptic leaf spring												Parallel semi-elliptic leaf spring					
Part number	54010-C9401	54010-C9402	54010-C9401	54010-C9400	54010-C9401	54010-C8560	54010-C8502	54010-C9401	54010-C9402	54010-C9401	54010-C9400	54010-C9401	54010-C8560	(R) 54010-C8503 (L) 54010-C8500	54010-C8502			
Length x Width x Thickness mm (in)	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-4 10-1* (43.31 x 2.36 x 0.24-4)	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-1 7-3 15-1*	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-7 (43.31 x 2.36 x 0.24)-7	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-4 10-1* (43.31 x 2.36 x 0.24-4)	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-1 7-3 15-1*	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-3 7-1 12-1*	1,100 x 60 x 6-3 7-1 12-1*			
Number of leaves	12-1*	10-1*	12-1*	15-1*	12-1*	2.36 x 0.24-7	12-1*	12-1*	10-1*	12-1*	15-1*	12-1*	12-1*	12-1*	12-1*			
*Helper spring	x 0.24-3	x 0.24-4	x 0.24-3	x 0.24-1	x 0.24-3		x 0.24-3	x 0.24-3	x 0.24-4	x 0.24-3	x 0.24-1	x 0.24-3	x 0.24-3	x 0.24-3	x 0.24-3			
	0.28-1	0.39-1*	0.28-1	0.28-3	0.28-1		0.28-1	0.28-1	0.28-1	0.28-1	0.28-3	0.28-3	0.28-1	0.28-1	0.28-1			
	0.47-1*	0.47-1*	0.47-1*	0.59-1*	0.47-1*		0.47-1*	0.47-1*	0.47-1*	0.47-1*	0.59-1*	0.47-1*	0.47-1*	0.47-1*	0.47-1*			
Camber Free mm (in)	169.4 (6.67)												169.4 (6.67)					
Spring constant N/mm (kg/mm, lb/in)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	52.2 (5.32, 297.9)	63.8 (6.51, 364.6)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	55.0 (5.61, 314.2)	55.0 (5.61, 314.2)	63.8 (6.51, 364.6)			
Shock absorber Type	Double acting hydraulic type												Double acting hydraulic type					
Maximum length mm (in)	414 (16.30)												414 (16.30)					
Damping force [at 0.3 m (1.0 ft)/sec]																		
Expansion N (kg, lb)	1,991 (203, 448)												1,991 (203, 448)					
Compression N (kg, lb)	667 (68, 150)												667 (68, 150)					
Stabilizer bar diameter mm (in)	20 (0.79)												20 (0.79)					
U-bolt Type A R.H. mm (in)	80 x 73.5 (3.15 x 2.894)												80 x 73.5 (3.15 x 2.894)					
Length (L) x Width (W)	125 x 89 (4.92 x 3.50)												125 x 89 (4.92 x 3.50)					
Type B L.H. mm (in)	130 x 89 (5.12 x 3.50)												130 x 89 (5.12 x 3.50)					
Length (L) x Width (W)	143 x 89 (5.63 x 3.50)												143 x 89 (5.63 x 3.50)					



## SERVICE DATA AND SPECIFICATIONS

### INSPECTION AND ADJUSTMENT

#### Wheel alignment (Unladen\*)

Camber	degree	0° - 1°	
Caster	degree	3° 05' - 4° 05'	
	Wagon except Australia		
	Heavy duty of Hardtop	2° 25' - 3° 25'	
Other models		3° 05' - 4° 05'	
Toe-in		Radial tire	Bias tire
	mm (in)	-2 to 0 (-0.08 to 0)	0 to 2 (0 to 0.08)
	degree (Total toe-in)	-9' to 0'	0' to 9'
Kingpin inclination	degree	7° - 8°	
Front wheel turning angle			
Toe-out-turn			
Inside/Outside	degree	20° / 19° 05' - 20° 35'	
Full turn			
Inside/Outside	degree	28° - 30° / 27° 30' - 29° 30'	

\*Tankful of fuel, radiator coolant and engine oil full.  
Spare tire, jack, hand tools, mats in designed position